

Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
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EFS ID: 11485  
Application ID: 09681695  
Title of Invention: INTEGRATED CHARGE AND  
VOLTAGE MODE DRIVE CIRCUIT  
FOR PIEZO ACTUATORS USED IN  
MASS DATA STORAGE DEVICES,  
OR THE LIKE  
First Named Inventor: Terence Murphy  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2001-05-22  
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: TI-31565  
Digital Certificate Holder: cn=Richard A. Bachand, ou=Registered Attorneys, ou=Patent and  
Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US  
Certificate Message Digest: iBIDEzR08HjBoKKEz+go5A==  
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Deposit Account Number: 200668  
Deposit Account Name: Richard A. Bachand



# TRANSMITTAL FORM



Electronic Version 1.0.2

Stylesheet Version: 1.0

Attorney Docket Number: TI-31565

## INTEGRATED CHARGE AND VOLTAGE MODE DRIVE CIRCUIT FOR PIEZO ACTUATORS USED IN MASS DATA STORAGE DEVICES, OR THE LIKE

First Named Inventor: Mr. Terence J. Murphy

### SUBMITTED BY

Name:	Mr. Richard Andre' Bachand
Registration Number:	25,107
Electronic Signature Mark: /RAB	Date Signed: 20010522

*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

### Attached Files:

bibd-transmittal	TI-31565apds.xml
patent-assignment	TI-31565asgn.xml
specification	Specification.xml

declaration

Declaration\_p\_1.tif

declaration

Declaration\_p\_2.tif

fee-transmittal

TI-31565fee.xml

Attached Image File(s):

Declaration\_p\_1.tif

Declaration\_p\_2.tif

TI-31565fee.xml

Comments:

FOIA b 7 - Exempt

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and I verily believe that I am the original, first and sole inventor if only one name is listed below, or an original first and joint inventor if plural inventors are named below, of the subject matter which is claimed and for which a patent is sought on the invention entitled: INTEGRATED CHARGE AND VOLTAGE MODE DRIVE CIRCUIT FOR PIEZO ACTUATORS USED IN MASS DATA STORAGE DEVICES, OR THE LIKE which is attached hereto.

I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment specifically referred to in the oath or declaration;

No application for patent or inventor's certificate on this invention has been filed by me or by my legal representatives or assigns in any country foreign to the United States of America;

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations Section 1.56(a);

I hereby claim that benefit under Title 35, United States Code Section 120 of any United States applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Serial No. \_\_\_\_\_, filed on \_\_\_\_\_.

As a named inventor, I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

☒ **Practitioners at Customer Number: 23494**

Send correspondence and direct telephone calls to:

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I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code, and that such willful statements may jeopardize the validity of the application or any patent issuing thereon.

Name of Inventor: Terence J. Murphy  
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Inventor's signature: Terence J. Murphy Date: 05/22/01

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Inventor's signature: James E. Chloupek Date: 5/22/01

# FEE TRANSMITTAL

Electronic Version 1.0.4

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*Patent fees are subject to annual revisions on or about October 1st of each year.*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 938**

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 20-0668



Deposit Account Name: Texas Instruments Incorporated

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

## SUBMITTED BY

Authorized Name: Richard A. Bachand

Electronic Signature Mark: \RAB

Date Signed: 20010522

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 710

Subtotal For Basic Filing Fee: \$ 710

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 26	103	\$ 18	6	\$ 108
Independent Claims: 4	102	\$ 80	1	\$ 80

Subtotal For Extra Claims Fees: \$ 188

ADDITIONAL FEES

Fee Description	Fee Code	Fee Paid
Recording Each Patent Assignment Per Property Fee	581	\$ 40

Subtotal For Additional Fees: \$ 40

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